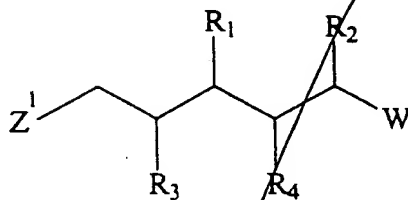


5

1.

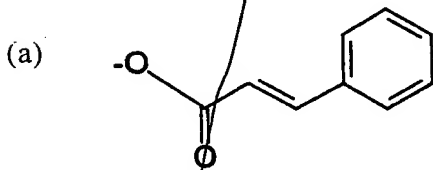


wherein:

$R_1$  and  $R_2$  are the same or different and are independently H or R;

20

$R_3$  and  $R_4$  are different and are independently selected from the groups consisting of OH.

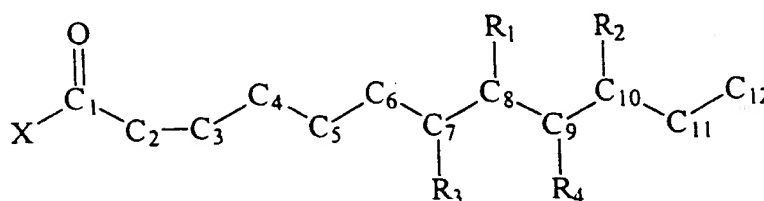


23

- 5 3. The compound or physiologically acceptable salt thereof of claim 1 or 2 wherein Z<sup>1</sup> is a linear or branched, saturated or unsaturated one to eight carbon carbonyl optionally substituted with a substituent selected from the group consisting of: NH<sub>2</sub>, NHR, NR<sub>2</sub>, OH, OR, SH, SR, H and CF<sub>3</sub>, wherein R is as defined.

10

4. A compound or a physiologically acceptable salt thereof, wherein the compound has the formula:



20

wherein:

a single, double or triple bond exists between one or more of: C-2 and C-3; C-3 and C-4; C-4 and C-5; and, C-5 and C-6;

25

X is NH<sub>2</sub>, NHR, NR<sub>2</sub>, OH, OR, SH, SR, H, or CF<sub>3</sub>;

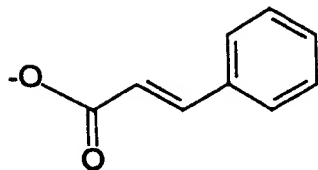
R is a structural fragment having a saturated or unsaturated linear, branched, or cyclic, skeleton containing one to ten carbon atoms in which the carbon atoms may be optionally substituted with a substituent selected from the group consisting of: -OH; =O; -OR<sub>5</sub>; -O<sub>2</sub>CR<sub>5</sub>; -SH; -SR<sub>5</sub>; -SOCR<sub>5</sub>; -NH<sub>2</sub>; -NHR<sub>5</sub>; -NH(R<sub>5</sub>)<sub>2</sub>; -NHCOR<sub>5</sub>; NRCOR<sub>5</sub>; -I; -Br; -Cl; -F; -CN; -CO<sub>2</sub>H; -CO<sub>2</sub>R<sub>5</sub>; -CHO; -COR<sub>5</sub>; -CONH<sub>2</sub>; -CONHR<sub>5</sub>; -CON(R<sub>5</sub>)<sub>2</sub>; -COSH; -COSR<sub>5</sub>; -NO<sub>2</sub>; -SO<sub>3</sub>H; -SOR<sub>5</sub>; and -SO<sub>2</sub>R<sub>5</sub>, wherein R<sub>5</sub> is a linear, branched or cyclic, one to ten carbon saturated or unsaturated alkyl group;

35

R<sub>1</sub> and R<sub>2</sub> are the same or different and are independently H or R;

$R_3$  and  $R_4$  are different and are selected from the group consisting of: OH,

(a)



and

(b)  $-O-Z-Ar$ 

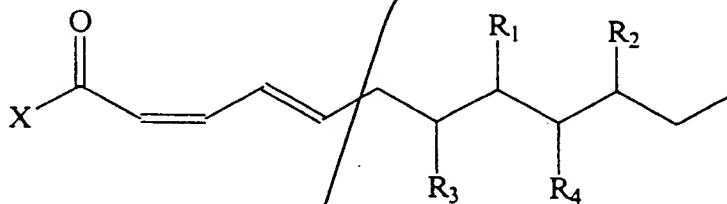
10 wherein, Z is a linear or branched, saturated or unsaturated, one to ten carbon fragment optionally substituted with Y;

Ar is a monocyclic, bicyclic or tricyclic, fully or partially aromatic system containing five or six membered carbocyclic or, oxygen, nitrogen or sulphur containing  
15 heterocyclic rings, optionally substituted with R or Y;

Y is selected from the group consisting of: H; =O, -OH; -OR; -O<sub>2</sub>CR; -SH; -SR; -SOCR; -NH<sub>2</sub>; -NHR; -NH(R)<sub>2</sub>; -NHCOR; NRCOR; -I; -Br; -Cl; -F; -CN- -CO<sub>2</sub>H; -CO<sub>2</sub>R; -CHO; -COR; -CONH<sub>2</sub>; -CONHR; -CON(R)<sub>2</sub>; -COSH; -COSR; -NO<sub>2</sub>; -SO<sub>3</sub>H;  
20 -SOR; -SO<sub>2</sub>R; and, -O- (epoxide);

with the proviso that one of  $R_3$  and  $R_4$  is (a) or (b), and another of  $R_3$  and  $R_4$  is OH.

5. The compound or physiologically acceptable salt thereof of claim 4 having the structure:



26

27

001090" 25F58560

Sub  
B2

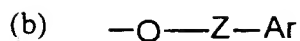
- 5 12. A compound according to claim 4, wherein the compound is Basiliskamide A substantially free of cellular contaminants.
13. A compound according to claim 4, wherein the compound is Basiliskamide B substantially free of cellular contaminants.
- 10 14. A pharmaceutical composition comprising a compound or physiological salt thereof of any one of claims 1-13, and a pharmaceutically acceptable carrier.
- 15 15. The use of a compound or physiological salt thereof of any one of claims 1-13, as an antifungal agent.
16. The use of a compound or physiological salt thereof of any one of claims 1-3, as an antimycobacterial agent.

Sub  
A3

09585157.060100

Add  
A4

5 and



wherein,

10  $Z^1$  and Z are linear or branched, saturated or unsaturated, one to ten carbon fragments optionally substituted with Y;

Ar is a monocyclic, bicyclic or tricyclic, fully or partially aromatic system containing five or six membered carbocyclic or, oxygen, nitrogen or sulphur containing heterocyclic rings, optionally substituted with R or Y;

15

Y is selected from the group consisting of: H; =O, -OH; -OR; -O<sub>2</sub>CR; -SH; -SR; -SOCR; -NH<sub>2</sub>; -NHR; -NH(R)<sub>2</sub>; -NHCOR; NRCOR; -I; -Br; -Cl; -F; -CN; -CO<sub>2</sub>H; -CO<sub>2</sub>R; -CHO; -COR; -CONH<sub>2</sub>; -CONHR; -CON(R)<sub>2</sub>; -COSH; -COSR; -NO<sub>2</sub>; -SO<sub>3</sub>H; -SOR; -SO<sub>2</sub>R; and, -O- (epoxide);

20

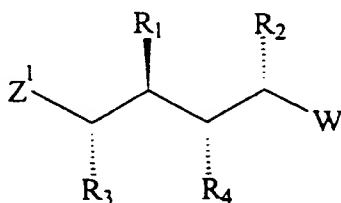
W is H or R;

with the provisos that when W is H, R<sub>2</sub> is not H; when R<sub>2</sub> is CH<sub>3</sub>, W is not n-propyl; and, one of R<sub>3</sub> and R<sub>4</sub> is (a) or (b) and another of R<sub>3</sub> and R<sub>4</sub> is OH.

25

2. The compound or physiologically acceptable salt thereof of claim 1 having the stereoisomeric form:

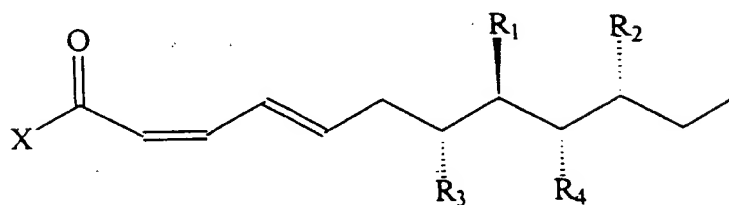
30



24

6. The compound or physiologically acceptable salt thereof of claim 4, having the structural and stereoisomeric form:

10



15

001090" 45758560

20

7. The compound or physiological salt thereof of any one of claims 4-6, wherein  $R_1$  and  $R_2$  are independently H or  $\text{CH}_3$ .

8. The compound or physiological salt thereof of any one of claims 4-7, wherein  $R_3$  is (a).

25

9. The compound or physiological salt thereof of any one of claims 4-8, wherein X is  $\text{NH}_2$ .

30

10. The compound or physiological salt thereof of any one of claims 4-9, wherein  $R_3$  at C7 is (a) and  $R_3$  at C9 is OH.

11. The compound or physiological salt thereof of any one of claims 4-9, wherein  $R_3$  at C7 is OH and  $R_3$  at C9 is (a).